Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS	20	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	21	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	23	MAR 02	GBFULL: New full-text patent database on STN
NEWS	24	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	25	MAR 03	MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:05:01 ON 09 MAR 2005

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:05:13 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6
DICTIONARY FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

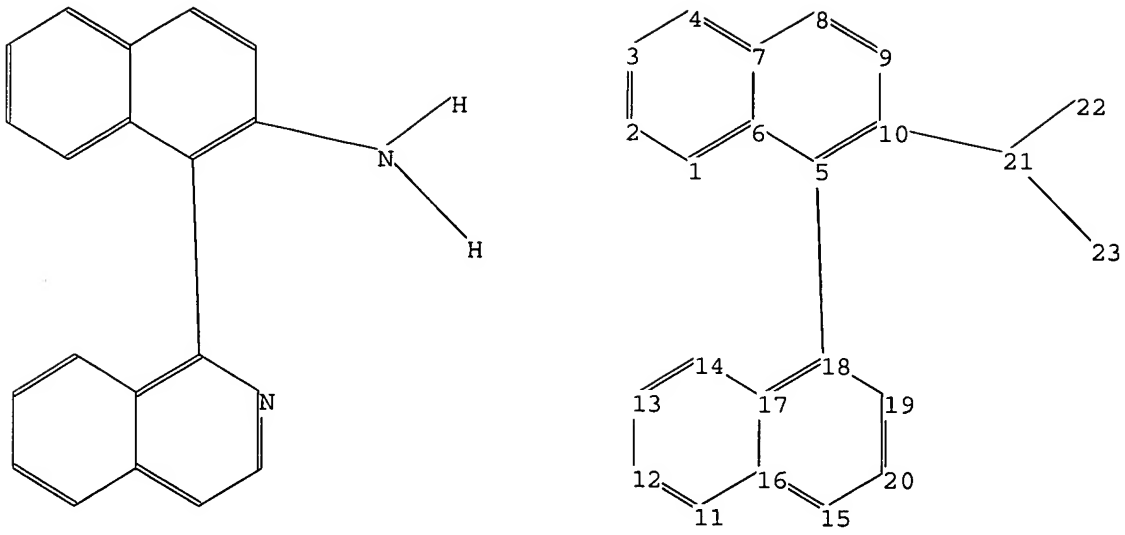
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10689156.str

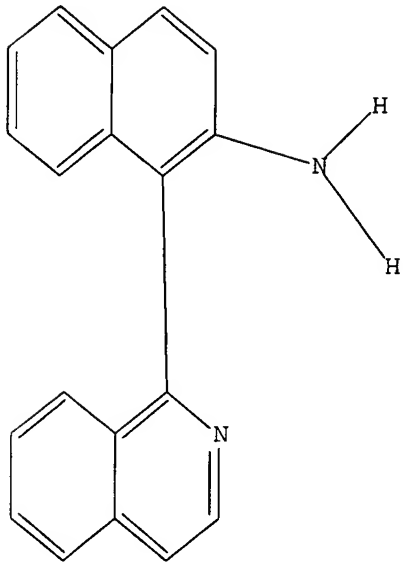


chain nodes :
21 22 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
chain bonds :
5-18 10-21 21-22 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-9 9-10 11-12 11-16 12-13 13-14
14-17 15-16 15-20 16-17 17-18 18-19 19-20
exact/norm bonds :
10-21
exact bonds :
5-18 21-22 21-23
normalized bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-9 9-10 11-12 11-16 12-13 13-14
14-17 15-16 15-20 16-17 17-18 18-19 19-20
isolated ring systems :
containing 1 : 11 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 11:05:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  .    4 TO ITERATE

100.0% PROCESSED       4 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            4 TO      200
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 11:05:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     73 TO ITERATE

100.0% PROCESSED      73 ITERATIONS                          1 ANSWERS
SEARCH TIME: 00.00.01

L3            1 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             161.33     161.54

FILE 'CAPLUS' ENTERED AT 11:05:41 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
```

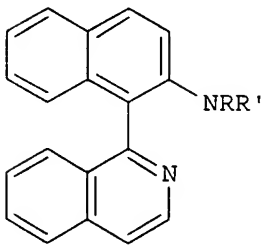
FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 1 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:15223 CAPLUS
DOCUMENT NUMBER: 140:217129
TITLE: Enantioenriched axially chiral β-diketimines: Determination of the ian-amine barrier to atropisomerization
AUTHOR(S): Cortright, Sarah B.; Yoder, Ryan A.; Johnston, Jeffrey N.
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405-7102, USA
SOURCE: Heterocycles (2004), 62, 223-227
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



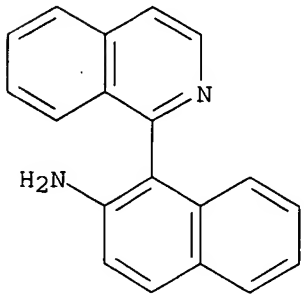
I

AB Enantioenriched (>98% ee) β-diketimines derived from Isoquinoline and 2-Amino Naphthalene ("IAN-amines") were prepared Thermal racemization of a series of R-IAN amines (I; R,R' = H,H; Me,H; Me,Me) revealed a high barrier to atropisomerization (.apprx.30 kcal/mol) and its relative insensitivity to substitution at the aminonaphthalene nitrogen. Mol.

mechanics calcns. accurately predicted the observed relative substituent effects.

IT **664302-70-9**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
(determination of barrier to atropisomerization in enantioenriched axially chiral β-diketimines derived from isoquinoline and 2-aminonaphthalene)

RN 664302-70-9 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-, (-)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.29	167.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

FILE 'REGISTRY' ENTERED AT 11:07:17 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6
DICTIONARY FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

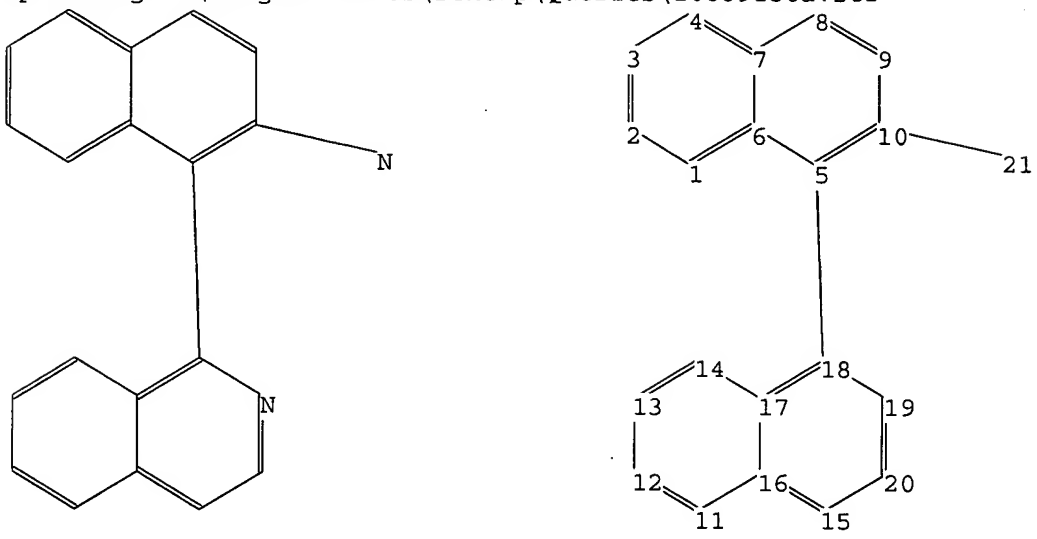
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10689156a.str

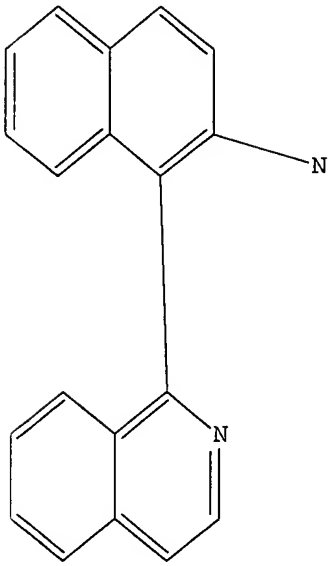


chain nodes :
21
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
chain bonds :
5-18 10-21
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-9 9-10 11-12 11-16 12-13 13-14
14-17 15-16 15-20 16-17 17-18 18-19 19-20
exact/norm bonds :
10-21
exact bonds :
5-18
normalized bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-9 9-10 11-12 11-16 12-13 13-14
14-17 15-16 15-20 16-17 17-18 18-19 19-20
isolated ring systems :
containing 1 : 11 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l5
SAMPLE SEARCH INITIATED 11:07:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      4 TO ITERATE

100.0% PROCESSED       4 ITERATIONS                          1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            4 TO      200
PROJECTED ANSWERS:               1 TO       80

L6            1 SEA SSS SAM L5

=> s l5 sss full
FULL SEARCH INITIATED 11:07:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     73 TO ITERATE

100.0% PROCESSED      73 ITERATIONS                         23 ANSWERS
SEARCH TIME: 00.00.01

L7           23 SEA SSS FUL L5

=> FIL CAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             161.33     329.16

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                               0.00      -0.73
```

FILE 'CAPLUS' ENTERED AT 11:07:46 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 5 L7

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	329.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.73

FILE 'REGISTRY' ENTERED AT 11:08:30 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6
DICTIONARY FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

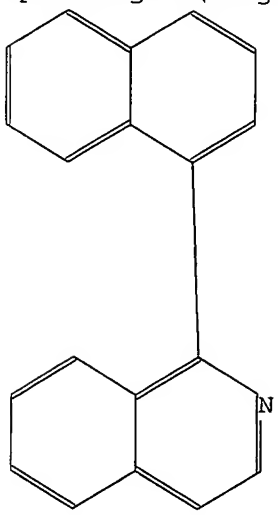
Please note that search-term pricing does apply when conducting SmartSELECT searches.

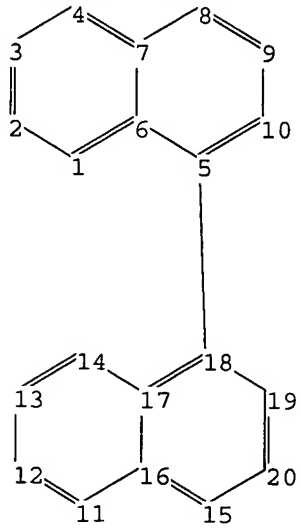
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\10689156b.str



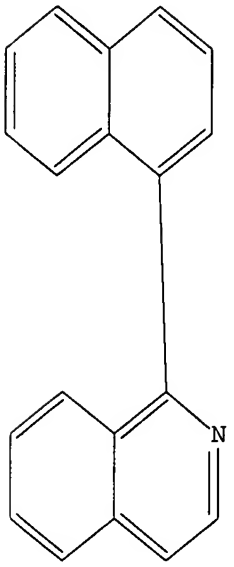


ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
chain bonds :
5-18
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-9 9-10 11-12 11-16 12-13 13-14
14-17 15-16 15-20 16-17 17-18 18-19 19-20
exact bonds :
5-18
normalized bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-9 9-10 11-12 11-16 12-13 13-14
14-17 15-16 15-20 16-17 17-18 18-19 19-20
isolated ring systems :
containing 1 : 11 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom

L9 STRUCTURE UPLOADED

=> d 19
L9 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l9
SAMPLE SEARCH INITIATED 11:08:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    203 TO ITERATE

100.0% PROCESSED     203 ITERATIONS                          11 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         3206 TO     4914
PROJECTED ANSWERS:              22 TO      418

L10          11 SEA SSS SAM L9

=> s l9 sss full
FULL SEARCH INITIATED 11:08:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3910 TO ITERATE

100.0% PROCESSED    3910 ITERATIONS                         114 ANSWERS
SEARCH TIME: 00.00.01

L11         114 SEA SSS FUL L9

=> FIL CAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             161.33     490.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                               0.00      -0.73
```

FILE 'CAPLUS' ENTERED AT 11:09:02 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l11
L12          75 L11

=> s l12 and py<=2003
      23606201 PY<=2003
L13          59 L12 AND PY<=2003

=> s l13 and p/dt
       4647178 P/DT
L14           7 L13 AND P/DT

=> d his

     (FILE 'HOME' ENTERED AT 11:05:01 ON 09 MAR 2005)

     FILE 'REGISTRY' ENTERED AT 11:05:13 ON 09 MAR 2005
L1               STRUCTURE UPLOADED
L2             0 S L1
L3             1 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 11:05:41 ON 09 MAR 2005
L4             1 S L3

     FILE 'REGISTRY' ENTERED AT 11:07:17 ON 09 MAR 2005
L5               STRUCTURE UPLOADED
L6             1 S L5
L7            23 S L5 SSS FULL

     FILE 'CAPLUS' ENTERED AT 11:07:46 ON 09 MAR 2005
L8             5 S L7

     FILE 'REGISTRY' ENTERED AT 11:08:30 ON 09 MAR 2005
L9               STRUCTURE UPLOADED
L10           11 S L9
L11          114 S L9 SSS FULL
```

FILE 'CAPLUS' ENTERED AT 11:09:02 ON 09 MAR 2005
L12 75 S L11
L13 59 S L12 AND PY<=2003
L14 7 S L13 AND P/DT

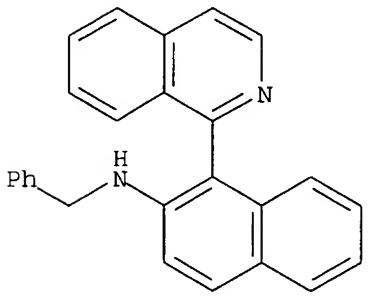
=> d l8 ibib abs hitstr tot

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:943012 CAPLUS
DOCUMENT NUMBER: 142:114146
TITLE: A Remarkably Facile Zirconium(IV) → Aluminum(III) β-Diketiminate Transmetalation That Also Results in a More Active Olefin Polymerization Catalyst upon Activation
AUTHOR(S): Cortright, Sarah B.; Coalter, Joseph N., III; Pink, Maren; Johnston, Jeffrey N.
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405-7102, USA
SOURCE: Organometallics (2004), 23(25), 5885-5888
CODEN: ORGND7; ISSN: 0276-7333
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

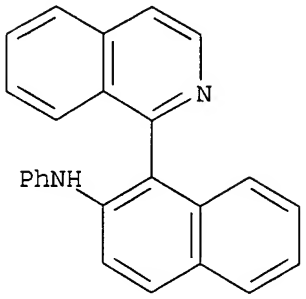
AB (R-IAN)2ZrX2 complexes, where X = NMe2, Cl, have recently emerged as effective olefin polymerization precatalysts bearing chiral ligands formally of the β-dialuminum ketimine class. An attempt to exchange dimethylamido ligands for alkyl (methyl) using the Jordan protocol resulted in a surprisingly facile transmetalation of the bidentate Me-IAN ligands from Zr(IV) to Al(III). An initial study of the process and the finding that the (R-IAN)AlMe2 complexes that result are more potent precatalysts themselves provide a case study within the rapidly growing area of catalysis based on β-diketiminate metal complexes.

IT **820235-58-3 820235-59-4 820236-07-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
((diketiminate)zirconium transmetalation with trimethylaluminum to give aluminum beta-diketiminate catalyst for olefin polymerization)

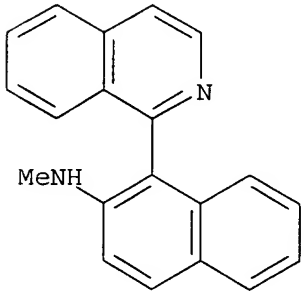
RN 820235-58-3 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(phenylmethyl)-, (1R)- (9CI) (CA INDEX NAME)



RN 820235-59-4 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-phenyl-, (1R)- (9CI) (CA INDEX NAME)



RN 820236-07-5 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-, (1R)- (9CI) (CA INDEX NAME)



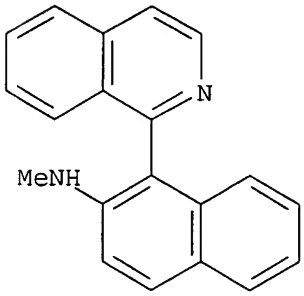
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:293518 CAPLUS
DOCUMENT NUMBER: 141:32878
TITLE: IAN Amines: Chiral C2-Symmetric Zirconium(IV) Complexes from Readily Modified Axially Chiral C1-Symmetric β-Diketimines
AUTHOR(S): Cortright, Sarah B.; Huffman, John C.; Yoder, Ryan A.; Coalter, Joseph N., III; Johnston, Jeffrey N.
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405-7102, USA
SOURCE: Organometallics (2004), 23(10), 2238-2250
CODEN: ORGND7; ISSN: 0276-7333
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:32878

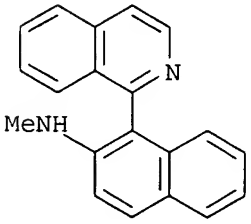
AB A general synthesis of β-diketimines derived from Isoquinoline and AminoNaphthalene components (IAN amines) is reported. Beginning from inexpensive 2-naphthol and isoquinoline, the sequence of reactions leading to 1-[2-(organoamino)naphth-1-yl]isoquinolines (R-IAN amines) is convergent, short, and high-yielding. Several new derivs. are reported (e.g., R = Bn, iPr, tBu, Ph, 2,6-Me2Ph, 2,6-iPr2Ph, 2-Np). All of these were complexed to Zr(IV) by transamination with Zr(NMe2)4, and in all cases 1:1 R-IAN:Zr complexes immediately formed at 25°. Except in cases of severe steric hindrance (iPr-IAN and 2,6-Me2Ph), the corresponding 2:1 IAN:Zr complexes formed at 25-100° in toluene. A

feature conserved among all 2:1 IAN:Zr complexes was a remarkable degree of diastereoselectivity favoring a C2-sym. bis(β-diketiminate) isomer bearing cis-NMe2 and cis-pyridyl ligands. Although all complexations were performed from rac-IAN, the resulting complexes are composed solely of homochiral ligands. The configurational integrity of Me-IAN and its ability to transfer asymmetry upon metal coordination was demonstrated in the catalyzed enantioselective addition of diethylzinc to benzaldehyde. Given the topog. similarity between these and metallocene complexes, several derivs. were preliminarily evaluated in ethylene polymerization

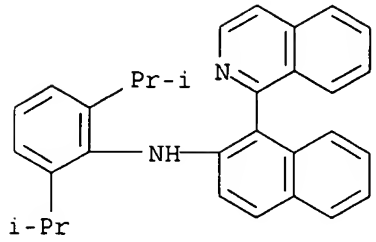
IT **697756-46-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
RN 697756-46-0 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-, (+)- (9CI) (CA INDEX NAME)



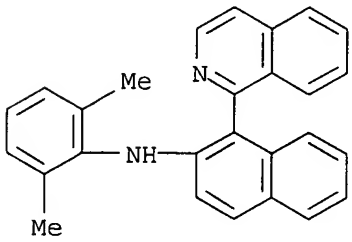
IT **412950-35-7**
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(racemate; crystal structure and stereoselective complexation with diethylzinc(II))
RN 412950-35-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl- (9CI) (CA INDEX NAME)



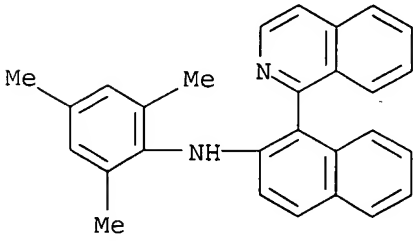
IT **473699-20-6P 473699-22-8P 473699-24-0P**
473699-28-4P 473699-63-7P 663948-30-9P
663948-31-0P 697741-32-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(racemate; preparation and stereoselective complexation with zirconium(IV) diethylamide via transamination)
RN 473699-20-6 CAPLUS
CN 2-Naphthalenamine, N-[2,6-bis(1-methylethyl)phenyl]-1-(1-isoquinolinyl)-(9CI) (CA INDEX NAME)



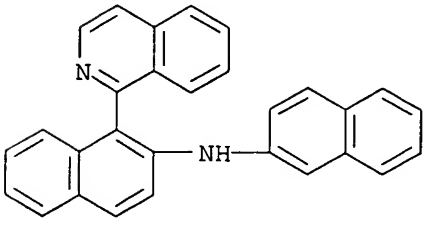
RN 473699-22-8 CAPLUS
CN 2-Naphthalenamine, N-(2,6-dimethylphenyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)



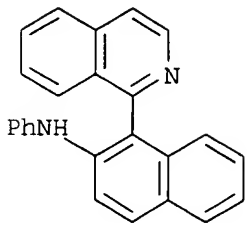
RN 473699-24-0 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



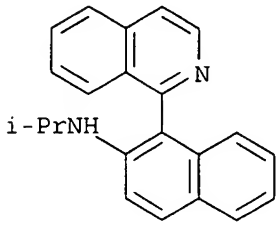
RN 473699-28-4 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-2-naphthalenyl- (9CI) (CA INDEX NAME)



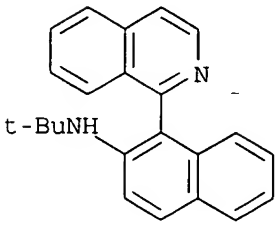
RN 473699-63-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-phenyl- (9CI) (CA INDEX NAME)



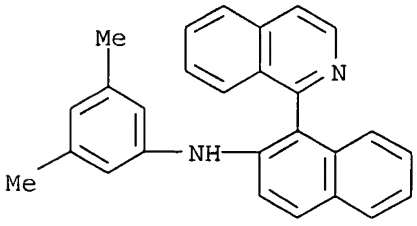
RN 663948-30-9 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 663948-31-0 CAPLUS
CN 2-Naphthalenamine, N-(1,1-dimethylethyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)



RN 697741-32-5 CAPLUS
CN 2-Naphthalenamine, N-(3,5-dimethylphenyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)

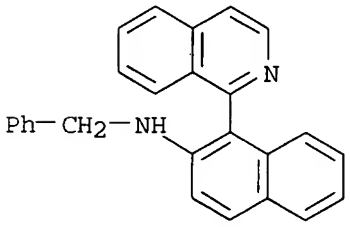


IT **697741-31-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(racemate; preparation, complexation with zirconium(IV) diethylamide via transamination, and subsequent iodination with Me iodide)

RN 697741-31-4 CAPLUS

CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



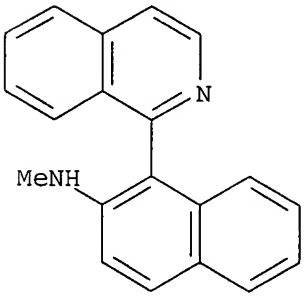
IT **664302-73-2**

RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(reaction with diethylzinc to generate catalyst for stereoselective addition of diethylzinc to benzaldehyde)

RN 664302-73-2 CAPLUS

CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-, (-)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 105 THERE ARE 105 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:15223 CAPLUS

DOCUMENT NUMBER: 140:217129

TITLE: Enantioenriched axially chiral β-diketimines: Determination of the ian-amine barrier to atropisomerization

AUTHOR(S): Cortright, Sarah B.; Yoder, Ryan A.; Johnston, Jeffrey N.

CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405-7102, USA

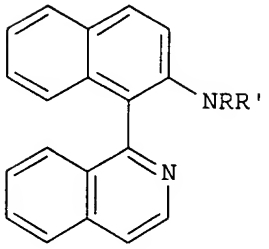
SOURCE: Heterocycles (2004), 62, 223-227
CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

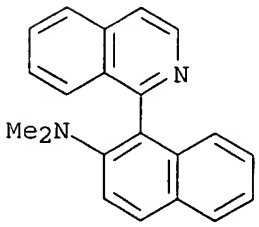


I

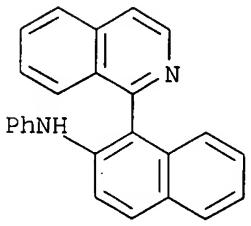
AB Enantioenriched (>98% ee) β-diketimines derived from Isoquinoline and 2-Amino Naphthalene ("IAN-amines") were prepared Thermal racemization of a series of R-IAN amines (I; R,R' = H,H; Me,H; Me,Me) revealed a high barrier to atropisomerization (.apprx.30 kcal/mol) and its relative insensitivity to substitution at the aminonaphthalene nitrogen. Mol. mechanics calcns. accurately predicted the observed relative substituent effects.

IT **473699-61-5 473699-63-7 663948-30-9 663948-31-0 663948-32-1 663948-33-2 664302-70-9 664302-73-2**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
(determination of barrier to atropisomerization in enantioenriched axially chiral β-diketimines derived from isoquinoline and 2-aminonaphthalene)

RN 473699-61-5 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)

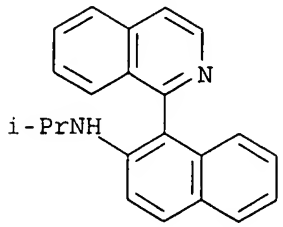


RN 473699-63-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-phenyl- (9CI) (CA INDEX NAME)

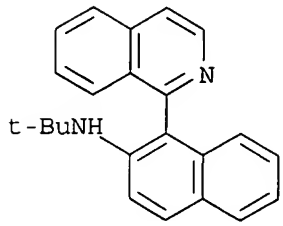


RN 663948-30-9 CAPLUS

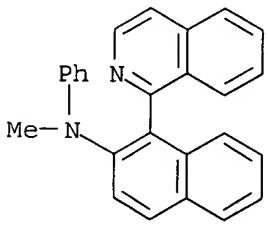
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



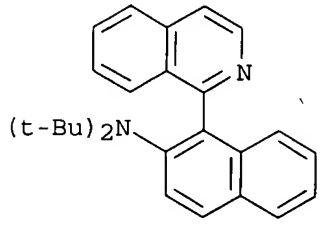
RN 663948-31-0 CAPLUS
CN 2-Naphthalenamine, N-(1,1-dimethylethyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)



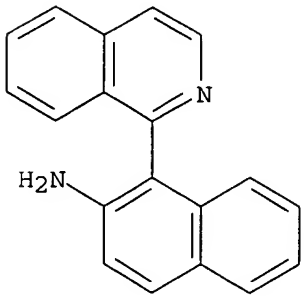
RN 663948-32-1 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)



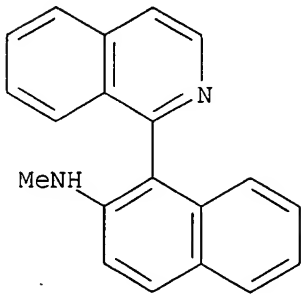
RN 663948-33-2 CAPLUS
CN 2-Naphthalenamine, N,N-bis(1,1-dimethylethyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)



RN 664302-70-9 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-, (-)- (9CI) (CA INDEX NAME)



RN 664302-73-2 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-, (-)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:832739 CAPLUS
DOCUMENT NUMBER: 137:345195
TITLE: Preparation of chiral (2-aminonaphthyl)isoquinoline derivatives and their metal complexes as enantioselective ethylation catalysts and precatalysts for olefin polymerization
INVENTOR(S): Johnston, Jeffrey N
PATENT ASSIGNEE(S): Indiana University, USA
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002085820	A2	20021031	WO 2002-US12609	20020422
WO 2002085820	A3	20030605		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

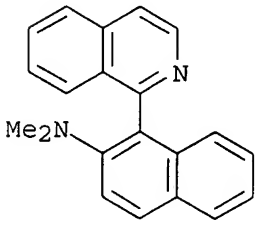
US 2004143118 A1 20040722 US 2003-689156 20031020
PRIORITY APPLN. INFO.: US 2001-285631P P 20010420
WO 2002-US12609 A1 20020422

OTHER SOURCE(S): CASREACT 137:345195; MARPAT 137:345195

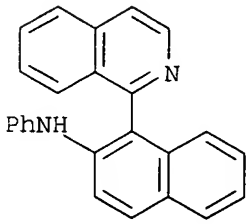
AB The preparation of chiral 1-(2-aminonaphth-1-yl)isoquinoline derivs. and their metal complexes having C2 symmetry are described. Thus, zirconium complexes [Zr(L)Cl2] {HL = 1-(2-(methylamino)naphth-1-yl)isoquinoline} and [Zr(L')Me2] {HL' = 1-(2-(phenylamino)naphth-1-yl)isoquinoline} were prepared and tested as precatalysts for ethylene polymerization Also, (+)-HL and Et2Zn were mixed in toluene and used for the enantioselective ethylation of benzaldehyde.

IT **473699-61-5 473699-63-7 473804-74-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of transition metal (aminonaphthyl)isoquinoline complexes as olefin polymerization precatalysts and enantioselective ethylation catalysts)

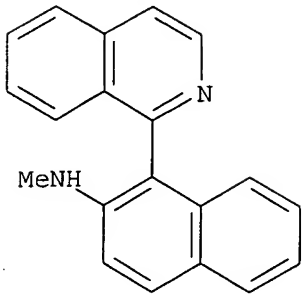
RN 473699-61-5 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



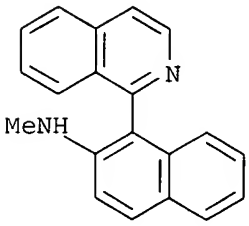
RN 473699-63-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-phenyl- (9CI) (CA INDEX NAME)



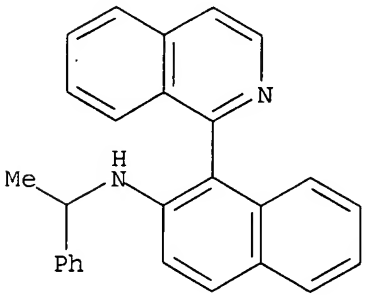
RN 473804-74-9 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-, (1S)- (9CI) (CA INDEX NAME)



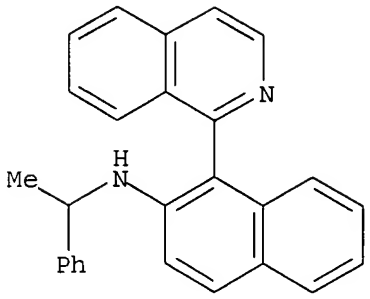
IT **412950-35-7P 413598-05-7P 413598-06-8P**
473699-20-6P 473699-22-8P 473699-24-0P
473699-26-2P 473699-28-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of transition metal (aminonaphthyl)isoquinoline complexes as olefin polymerization precatalysts and enantioselective ethylation catalysts)
RN 412950-35-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl- (9CI) (CA INDEX NAME)



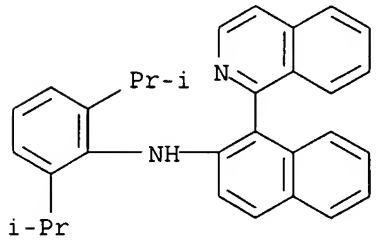
RN 413598-05-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-[(1S)-1-phenylethyl]-, (1R)- (9CI) (CA INDEX NAME)



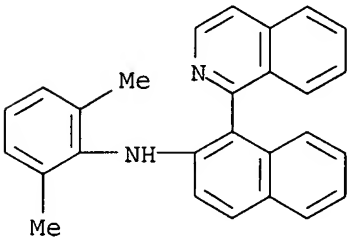
RN 413598-06-8 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-[(1S)-1-phenylethyl]-, (1S)- (9CI) (CA INDEX NAME)



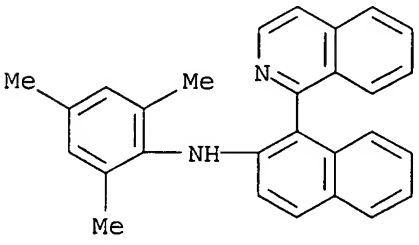
RN 473699-20-6 CAPLUS
CN 2-Naphthalenamine, N-[2,6-bis(1-methylethyl)phenyl]-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)



RN 473699-22-8 CAPLUS
CN 2-Naphthalenamine, N-(2,6-dimethylphenyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)

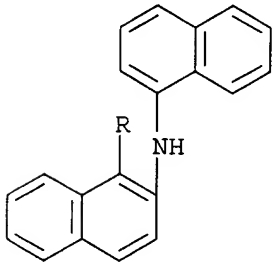


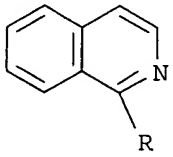
RN 473699-24-0 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



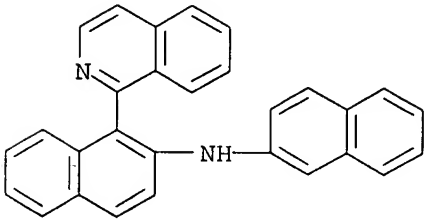
RN 473699-26-2 CAPLUS

CN 1-Naphthalenamine, N-[1-(1-isoquinolinyl)-2-naphthalenyl]- (9CI) (CA INDEX NAME)





RN 473699-28-4 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-2-naphthalenyl- (9CI) (CA INDEX NAME)

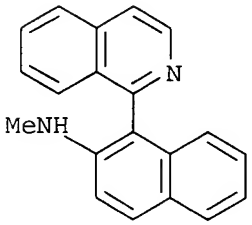


L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:108159 CAPLUS
DOCUMENT NUMBER: 136:334243
TITLE: IAN-amines: direct entry to a chiral C2-symmetric zirconium(IV) β-diketiminate complex
AUTHOR(S): Cortright, Sarah B.; Johnston, Jeffrey N.
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405, USA
SOURCE: Angewandte Chemie, International Edition (2002), 41(2), 345-348
CODEN: ACIEF5, ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The synthesis of amine ligands with binaphthyl backbone derived from isoquinoline and 2-aminonaphthalene (IAN-amines) is described. Racemic 2-methylamino-1-(isoquinolin-1'-yl)naphthalene (I) and 2-[(S)-α-methylbenzylamino]-1-(isoquinolin-1'-yl)naphthalene (2 axial diastereomers) were obtained. The complexation behavior of these

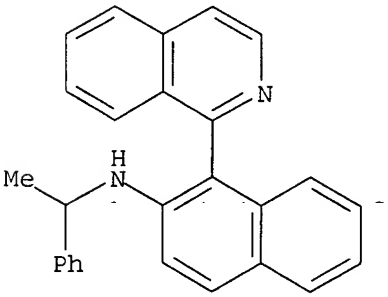
ligands was examined using Zr(NMe2)4. Crystal data and ORTEP diagrams of amine/Zr-complexes (Zr ligands NMe2 and Cl) from I are presented. IAN-amines are a class of configurationally stable axially chiral β-diketimines that provide direct access to C2-sym. nonmetallocene group IV metal complexes.

IT **412950-35-7P 413598-05-7P 413598-06-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with zirconium)

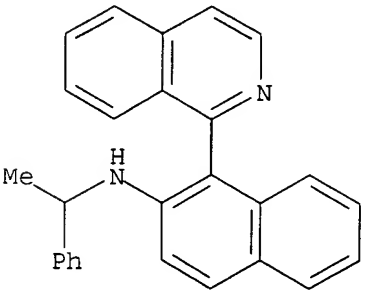
RN 412950-35-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl- (9CI) (CA INDEX NAME)



RN 413598-05-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-[(1S)-1-phenylethyl]-, (1R)- (9CI) (CA INDEX NAME)



RN 413598-06-8 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-[(1S)-1-phenylethyl]-, (1S)- (9CI) (CA INDEX NAME)



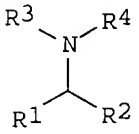
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l14 ibib abs hitstr tot

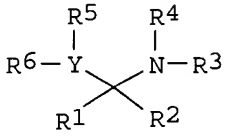
L14 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:93074 CAPLUS
DOCUMENT NUMBER: 138:153227
TITLE: Preparation of amines via catalytic hydrogenation of aminals and related compounds
PATENT ASSIGNEE(S): Degussa AG, Germany
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10133782	A1	20030206	DE 2001-10133782	20010716 <--
PRIORITY APPLN. INFO.:			DE 2001-10133782	20010716

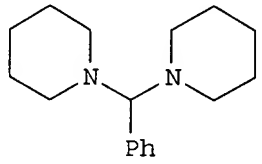
OTHER SOURCE(S): CASREACT 138:153227; MARPAT 138:153227
GI



I



II

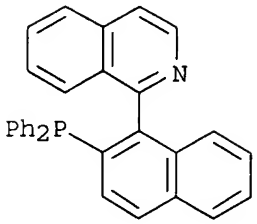


III

AB A process for the preparation of title compds. I via catalytic hydrogenation of aminals and related compds. II [Y = O, N with the proviso that when Y = O, then R5 or R6 = free pair of electrons; R1, R2, R3, R4, R5, R6 = H, alkyl, alkenyl, etc.] is disclosed. For example, a mixture of phenylmethane III (5.0 mmol), [Rh(DPOE)COD]BF4 (0.01 mmol) in methanol (10 mL) was stirred under hydrogen gas (52 bar) for 1.5 h. Evaporation of the solvent afforded N-benzylpiperidine in quant. yield. Approx. 17-specific examples of compds. I were prepared

IT **149341-34-4**
RL: RGT (Reagent); RACT (Reactant or reagent)
(preparation of amines via catalytic hydrogenation of aminals and related compds.)

RN 149341-34-4 CAPLUS
CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]-, (1R)- (9CI) (CA INDEX NAME)



L14 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:832739 CAPLUS
DOCUMENT NUMBER: 137:345195
TITLE: Preparation of chiral (2-aminonaphthyl)isoquinoline derivatives and their metal complexes as enantioselective ethylation catalysts and precatalysts for olefin polymerization
INVENTOR(S): Johnston, Jeffrey N.
PATENT ASSIGNEE(S): Indiana University, USA
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

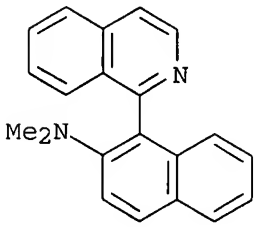
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002085820	A2	20021031	WO 2002-US12609	20020422 <--
WO 2002085820	A3	20030605		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004143118	A1	20040722	US 2003-689156	20031020
PRIORITY APPLN. INFO.:			US 2001-285631P	P 20010420
			WO 2002-US12609	A1 20020422

OTHER SOURCE(S): CASREACT 137:345195; MARPAT 137:345195

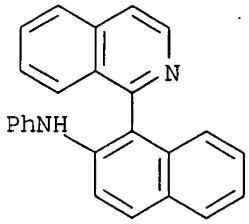
AB The preparation of chiral 1-(2-aminonaphth-1-yl)isoquinoline derivs. and their metal complexes having C2 symmetry are described. Thus, zirconium complexes [Zr(L)Cl2] {HL = 1-(2-(methylamino)naphth-1-yl)isoquinoline} and [Zr(L')Me2] {HL' = 1-(2-(phenylamino)naphth-1-yl)isoquinoline} were prepared and tested as precatalysts for ethylene polymerization Also, (+)-HL and Et2Zn were mixed in toluene and used for the enantioselective ethylation of benzaldehyde.

IT **473699-61-5 473699-63-7 473804-74-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of transition metal (aminonaphthyl)isoquinoline complexes as olefin polymerization precatalysts and enantioselective ethylation catalysts)
RN 473699-61-5 CAPLUS

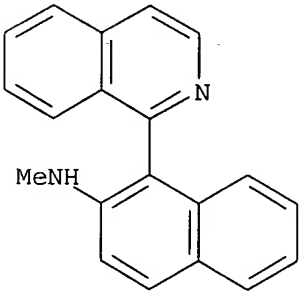
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



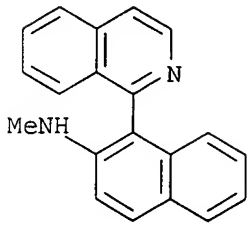
RN 473699-63-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-phenyl- (9CI) (CA INDEX NAME)



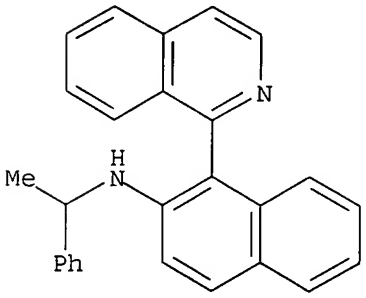
RN 473804-74-9 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl-, (1S)- (9CI) (CA INDEX NAME)



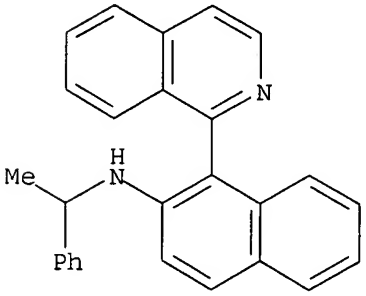
IT **412950-35-7P 413598-05-7P 413598-06-8P**
473699-20-6P 473699-22-8P 473699-24-0P
473699-26-2P 473699-28-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of transition metal (aminonaphthyl)isoquinoline complexes as olefin polymerization precatalysts and enantioselective ethylation catalysts)
RN 412950-35-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-methyl- (9CI) (CA INDEX NAME)



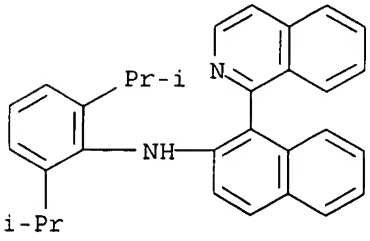
RN 413598-05-7 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-[(1S)-1-phenylethyl]-, (1R)-
(9CI) (CA INDEX NAME)



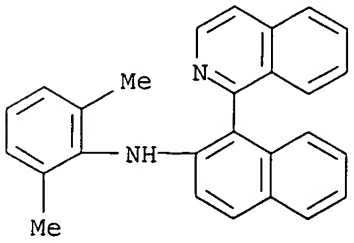
RN 413598-06-8 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-[(1S)-1-phenylethyl]-, (1S)-
(9CI) (CA INDEX NAME)



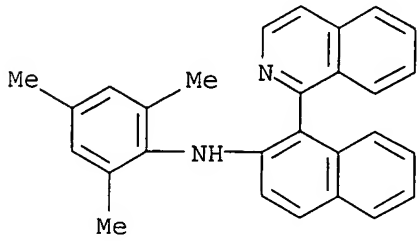
RN 473699-20-6 CAPLUS
CN 2-Naphthalenamine, N-[2,6-bis(1-methylethyl)phenyl]-1-(1-isoquinolinyl)-
(9CI) (CA INDEX NAME)



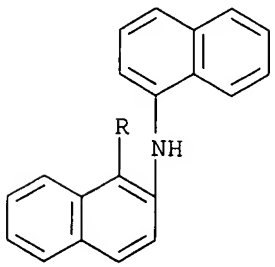
RN 473699-22-8 CAPLUS
CN 2-Naphthalenamine, N-(2,6-dimethylphenyl)-1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)

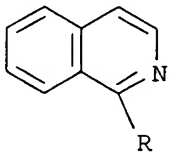


RN 473699-24-0 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

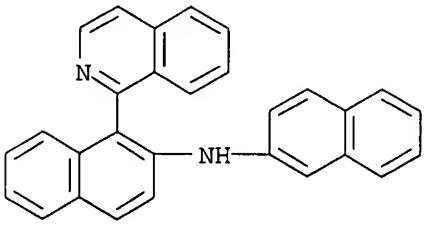


RN 473699-26-2 CAPLUS
CN 1-Naphthalenamine, N-[1-(1-isoquinolinyl)-2-naphthalenyl]- (9CI) (CA INDEX NAME)





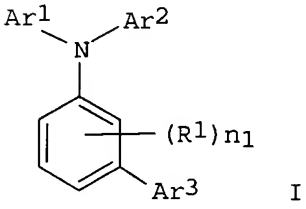
RN 473699-28-4 CAPLUS
CN 2-Naphthalenamine, 1-(1-isoquinolinyl)-N-2-naphthalenyl- (9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:465654 CAPLUS
DOCUMENT NUMBER: 137:39157
TITLE: Organic electroluminescent element, material and display
INVENTOR(S): Yamada, Taketoshi; Ueda, Noriko; Matsuura, Mitsunobu; Kita, Hiroshi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

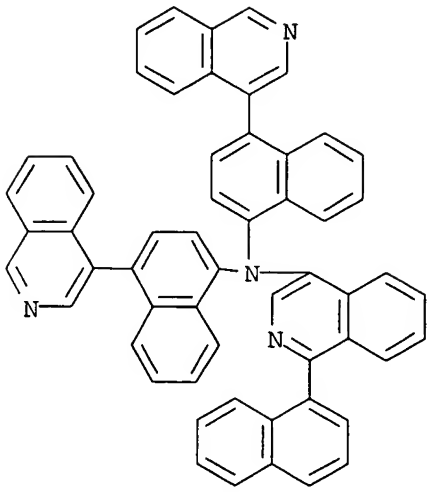
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2002175883	A2	20020621	JP 2001-231650		20010731 <--
PRIORITY APPLN. INFO.:			JP 2000-285050	A	20000920
			JP 2000-292124	A	20000926

OTHER SOURCE(S): MARPAT 137:39157
GI



I

AB The invention refers to an organic electroluminescent device comprising the compound I [Ar1-3 = (un)substituted aromatic hydrocarbon(heterocyclyl); R1 = alkyl, halo, alkoxy; n1 = 0 - 4].
IT **436086-61-2**
RL: DEV (Device component use); USES (Uses)
(organic electroluminescent element, material and display)
RN 436086-61-2 CAPLUS
CN 4-Isoquinolinamine, N,N-bis[4-(4-isoquinolinyl)-1-naphthalenyl]-1-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:220505 CAPLUS
DOCUMENT NUMBER: 136:264828
TITLE: Catalytic hydrogenation processes using ruthenium phosphine complexes
INVENTOR(S): Rautenstrauch, Valentin; Challand, Rene; Churlaud, Raphaeel; Morris, Robert Harold; Abdur-Rashid, Kamaluddin; Brazi, Eric; Mimoun, Hubert
PATENT ASSIGNEE(S): Firmenich S.A., Switz.
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022526	A2	20020321	WO 2001-IB1657	20010911 <--
WO 2002022526	A3	20030912		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2422029	AA	20020321	CA 2001-2422029	20010911 <--
AU 2001080028	A5	20020326	AU 2001-80028	20010911 <--
EP 1366004	A2	20031203	EP 2001-958310	20010911 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004509087	T2	20040325	JP 2002-526727	20010911
US 2004063966	A1	20040401	US 2003-380483	20030903
PRIORITY APPLN. INFO.:			US 2000-232144P P	20000913

WO 2000-IB1303 W 20000913
WO 2001-IB1657 W 20010911

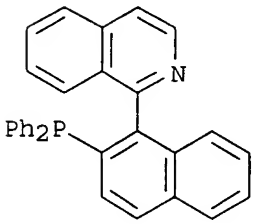
OTHER SOURCE(S): MARPAT 136:264828

AB The catalysts [Ru(L)m(L')wXY], wherein X and Y represent simultaneously or independently a H or halogen atom, a hydroxy group, or an alkoxy, carboxyl or other anionic radical, m = 1 or 2, w = 1 when m is 1 and w = 0 when m = 2, L is a phosphino-amine or phosphino-imine bidentate ligand and L' a diphosphine, are useful for the hydrogenation of substrates having a C-hetero atom double bond. For example, [RuHClL2] (L = (2-aminoethyl)diphenylphosphine) was prepared from [RuCl2(COD)]n and L under Ar in iPrOH in presence of NaOH. [RuHClL2] was used as a catalyst for the hydrogenation of acetophenone with 100% conversion.

IT **149341-33-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for preparation of ruthenium phosphine mixed ligand complexes as hydrogenation catalyst for imines and ketones)

RN 149341-33-3 CAPLUS

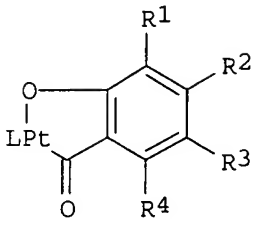
CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]-, (1S)- (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:271994 CAPLUS
DOCUMENT NUMBER: 132:293884
TITLE: Preparation of optically active aryloxyacyl platinum(II) complexes as catalysts
INVENTOR(S): Fujimura, Osamu; Tanaka, Mitsuhiro; Ataka, Kikuo
PATENT ASSIGNEE(S): Ube Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000119285	A2	20000425	JP 1998-283656	19981006 <--

PRIORITY APPLN. INFO.: JP 1998-283656 19981006
OTHER SOURCE(S): CASREACT 132:293884; MARPAT 132:293884
GI



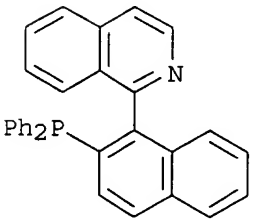
I

AB Title compds. I (R1-R4 = H, halo, alkyl, alkenyl, aryl, alkoxy, etc.; L = optically active N-P heterobidentate ligand) are prepared Thus, potassium tetrachloroplatinate was reacted with 3,5-di-tert-butyl-2-hydroxybenzaldehyde (3,5-DTBSH2) and (S)-2-[2-(diphenylphosphino)phenyl]-4-isopropyl-4,5-dihydrooxazole [(S)-DPIPO] in the presence of Na2CO3 in DMSO at 100° to give 69% Pt(3,5-DTBS)[(S)-DPIPO]. Reaction of styrene and phenyldimethylsilane in the presence of Pt(3,5-DTBS)[(S)-DPIPO] at room temperature for 1.5 h gave 99% dimethylphenethylphenylsilane.

IT **149341-33-3**, (S)-QUINAP
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalyst ligand; preparation of optically active aryloxyacyl platinum complexes as catalysts)

RN 149341-33-3 CAPLUS

CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]-, (1S)- (9CI) (CA INDEX NAME)



L14 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:53646 CAPLUS

DOCUMENT NUMBER: 132:108101

TITLE: Biaryl phosphine and amine ligands for improved transition metal-catalyzed processes

INVENTOR(S): Buchwald, Stephen; Old, David W.; Wolfe, John P.; Palucki, Michael; Kamikawa, Ken; Chieffi, Andrew; Sadighi, Joseph P.; Singer, Robert A.; Ahman, Jens

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 397 pp.
CODEN: PIXXD2

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000002887	A2	20000120	WO 1999-US15450	19990709 <--

WO 2000002887	A3	20000629			
W: CA, JP					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
US 6395916	B1	20020528	US 1998-113478		19980710 <--
US 6307087	B1	20011023	US 1999-231315		19990113 <--
CA 2336691	AA	20000120	CA 1999-2336691		19990709 <--
EP 1097158	A2	20010509	EP 1999-933785		19990709 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
JP 2002520328	T2	20020709	JP 2000-559117		19990709 <--
PRIORITY APPLN. INFO.:			US 1998-113478	A	19980710
			US 1998-196855	A	19981120
			US 1999-231315	A	19990113
			US 1999-239024	A	19990127
			WO 1999-US15450	W	19990709

OTHER SOURCE(S): MARPAT 132:108101

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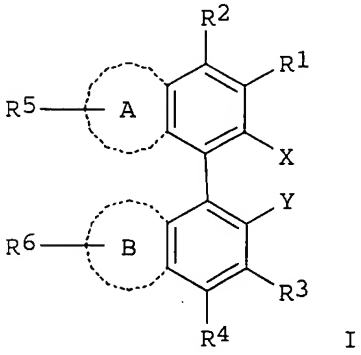


I

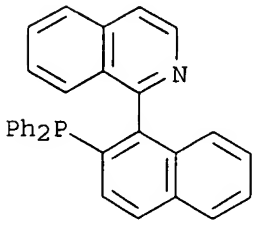
AB The present invention relates to the preparation of novel biaryl phosphine and amine ligands (I) [wherein A and B = independently fused monocyclic or polycyclic cycloalkyl, cycloalkenyl, aryl, or heterocyclic rings of 4-8 atoms; X = NR2, PR2, AsR2, OR, or SR; Y = NR2, PR2, AsR2, OR, SR, SiR3, alkyl, or H; R-R6 = independently H, halogen, (hetero)alkyl, alkenyl, alkynyl, hydroxy, alkoxy, silyloxy, amino, nitro, sulfhydryl, amide, carbonyl, ketone, anhydride, silyl, thioalkyl, ketone, ester, nitrile, (hetero)aryl, etc.] for transition metals and their use in metal-catalyzed carbon-heteroatom and carbon-carbon bond-forming reactions. Unexpected improvements over the prior art were demonstrated in transition metal-catalyzed aryl amination reactions, Suzuki couplings giving both biaryl and alkylaryl products, arylations and vinylations at the position α to carbonyl groups, and carbon-oxygen bond formation. The ligands and methods of the invention enable transformations utilizing aryl chlorides and bromides at room temperature at synthetically useful rates with extremely small amts. of catalyst relative to the limiting reagent. For example, coupling of p-chlorobenzonitrile and morpholine was catalyzed by 2.5 mol% Pd2(dba)3, 7.5 mol% of 2-(N,N-dimethylamino)-2'-(dicyclohexylphosphino)biphenyl, and NaOBu-t in DME at room temperature to provide 4-(4-morpholinyl)benzonitrile in 96% yield. Thus, the subject processes provide improvements in many features of the transition metal-catalyzed reactions, including the range of suitable substrates,

reaction conditions, and efficiency.

IT **149341-34-4**
RL: CAT (Catalyst use); USES (Uses)
(catalyst; preparation of biaryl phosphine and amine ligands for improved palladium-catalyzed amination reactions, Suzuki couplings, arylations, vinylations, and carbon-oxygen bond formation reactions)

RN 149341-34-4 CAPLUS

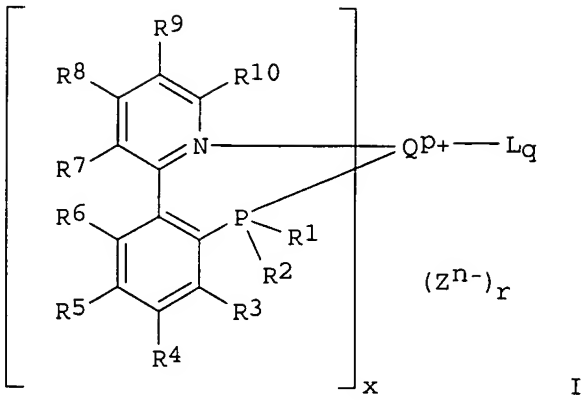
CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]-, (1R)- (9CI) (CA INDEX NAME)



L14 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:913318 CAPLUS
DOCUMENT NUMBER: 123:313109
TITLE: Preparation of optically active alcohols and amines by asymmetric hydroboration, using chiral [(diphenylphosphino)naphthyl]isoquinoline complex catalysts
INVENTOR(S): Brown, John Michael
PATENT ASSIGNEE(S): Isis Innovation Ltd., UK
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9513284	A1	19950518	WO 1994-GB2461		19941109 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN					
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
AU 9481126	A1	19950529	AU 1994-81126		19941109 <--
PRIORITY APPLN. INFO.:			GB 1993-23028	A	19931109
			WO 1994-GB2461	W	19941109

OTHER SOURCE(S): CASREACT 123:313109; MARPAT 123:313109
GI



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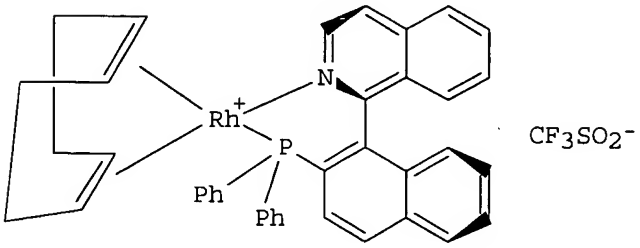


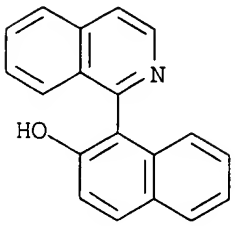
II

AB A process is claimed, for the reaction of an alkene, allene, or alkyne with a borane in the presence of a catalyst to form an optically active alkylboronate, which may then react with an oxidizing agent to form an optically active alc. or amine. The catalyst may have formula I [Q = Group VIIIA metal ion; R1-R10 = organic groups.; x = 1-3; p = 0-4, L = ligand; q = 1-5; Z = counterion; n = 0-5; r = 0-5]. For example, racemic 1-(2-diphenylphosphino-1-naphthyl)isoquinoline was prepared in 7 steps, and resolved via a diastereomeric Pd complex. Reaction of the (S)-enantiomer with rhodium(I)(1,5-cyclooctadiene)(2,4-pentanedionate) and Me3SiOSO2CF3 gave complex II in 100% yield. Reaction of styrene with catecholborane in THF in the presence of 0.2 mol% II, followed by quenching with EtOH, 2M NaOH, and 30% H2O2, gave (S)-1-phenylethanol in 71% yield with 92.9% optical yield. Prepns. of several addnl. catalysts, and hydroborations of other alkenes using II, are described.

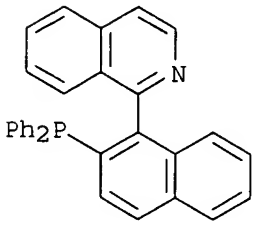
IT **131117-42-5P**, 1-(2-Hydroxy-1-naphthyl)isoquinoline
149245-03-4P, (R,S)-1-(2-Diphenylphosphino-1-naphthyl)isoquinoline
149245-04-5P, 1-(2-Methoxy-1-naphthyl)isoquinoline
149245-06-7P, 1-(2-Trifluoromethanesulfonyloxy-1-naphthyl)isoquinoline **149245-07-8P**, 1-(2-Diphenylphosphinyl-1-naphthyl)isoquinoline
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of [(diphenylphosphino)naphthyl]isoquinoline ligands for asym. hydroboration catalysts)

RN 131117-42-5 CAPLUS

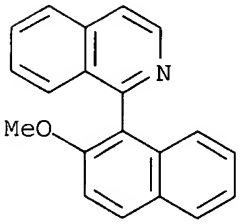
CN 2-Naphthalenol, 1-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)



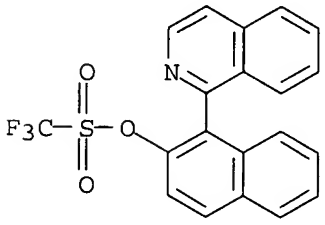
RN 149245-03-4 CAPLUS
CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]- (9CI) (CA INDEX NAME)



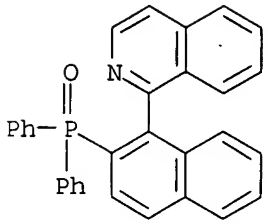
RN 149245-04-5 CAPLUS
CN Isoquinoline, 1-(2-methoxy-1-naphthalenyl)- (9CI) (CA INDEX NAME)



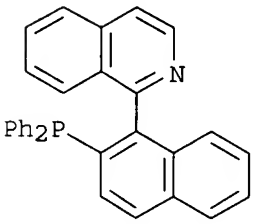
RN 149245-06-7 CAPLUS
CN Methanesulfonic acid, trifluoro-, 1-(1-isoquinolinyl)-2-naphthalenyl ester (9CI) (CA INDEX NAME)



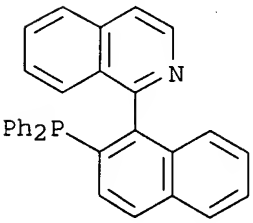
RN 149245-07-8 CAPLUS
CN Isoquinoline, 1-[2-(diphenylphosphinyl)-1-naphthalenyl]- (9CI) (CA INDEX NAME)



IT **149341-33-3P**, (S)-1-(2-Diphenylphosphino-1-naphthyl)isoquinoline
149341-34-4P, (R)-1-(2-Diphenylphosphino-1-naphthyl)isoquinoline
RL: CAT (Catalyst use); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of [(diphenylphosphino)naphthyl]isoquinoline ligands for asym. hydroboration catalysts)
RN 149341-33-3 CAPLUS
CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]-, (1S)- (9CI) (CA INDEX NAME)



RN 149341-34-4 CAPLUS
CN Isoquinoline, 1-[2-(diphenylphosphino)-1-naphthalenyl]-, (1R)- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	65.31	556.25
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.76	-9.49

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